

**IN THE CLAIMS:**

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Currently Amended) A method of producing improved genetic breeding stocks in ~~animals~~ chickens, the method comprising:
  - a) inducing pulmonary hypertension in ~~animals~~ chickens by occluding the pulmonary vasculature with particulate substances of a size about 8 to about 250 micrometers in diameter injected into venous blood that carries the particles to the right cardiac ventricle pumping the blood containing the particles to the lungs, wherein the particles directly increase pulmonary vascular resistance by lodging in small blood vessels, the heart being forced to develop and maintain an elevated pressure in the pulmonary arteries to propel the requisite cardiac output through vessels remaining unoccluded, ~~animals~~ chickens that are susceptible to pulmonary hypertension subsequently developing pulmonary hypertension syndrome, and
  - b) separating susceptible ~~animals~~ chickens from the resistant ~~animals~~ chickens, the resistant ~~animals~~ chickens being useful as genetic breeding stock resistant to pulmonary hypertension.
6. (Canceled)
7. (Canceled)
8. (Canceled)
9. (Canceled)
10. (Canceled)

11. (Canceled)
12. (Canceled)
13. (Canceled)
14. (Canceled)
15. (Currently Amended) A method for producing a pulmonary hypertension resistant poultry strain comprising:
  - a) administering into the pulmonary circulation of immature poultry, particles having about 8 to about 250  $\mu$ M diameter in an amount sufficient to kill or disable ~~animals~~ chickens susceptible to pulmonary hypertension while resistant poultry remain unaffected; and
  - b) selecting and breeding ~~healthy survivors~~ the resistant poultry to produce a pulmonary hypertension resistant poultry strain.